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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/029,162	10/25/2001	Igor Katsman	15-DS-00544 4599		
7590 10/23/2006			EXAMINER		
Joseph M. Barich			BOUTAH, ALINA A		
McAndrews, He	eld & Malloy, Ltd.				
34th Floor		ART UNIT	PAPER NUMBER		
500 W. Madisor	n Street	2143			
Chicago, IL 60661			DATE MAILED: 10/23/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Applicat	Application No. Ap		pplicant(s)		
		10/029,	162	KATSMAN ET AL			
		Examine	er .	Art Unit			
		Alina N.		2143			
Period fo	The MAILING DATE of this communication Reply	on appears on th	ne cover sheet with	h the correspondence ac	ldress		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR FOR HEVER IS LONGER, FROM THE MAILIN nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicati of period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by reply received by the Office later than three months after the department of the provided patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF T CFR 1.136(a). In no e ion. period will apply and statute, cause the ap	THIS COMMUNIC, event, however, may a rep will expire SIX (6) MONTI oplication to become ABA	ATION.  ply be timely filed  HS from the mailing date of this country (35 U.S.C. § 133).			
Status		,					
1)⊠	Responsive to communication(s) filed on	07 August 200	16	•			
·		This action is	<del></del>				
3)	Since this application is in condition for al	rs, prosecution as to the	e merits is				
٠,٣	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims	•		,			
_		nd 51-53 is/are i	nending in the an	alication			
	Claim(s) <u>1-7,10-23,28-34,37,38,40-46 and 51-53</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
· · · —	<ul> <li>☐ Claim(s) is/are allowed.</li> <li>☐ Claim(s) 1-7,10-23,28-34,37,38,40-46 and 51-53 is/are rejected.</li> </ul>						
	Claim(s) is/are objected to.		ojootou.				
	Claim(s) are subject to restriction a	and/or election	requirement.	•			
	on Papers						
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10)[]	The drawing(s) filed on is/are: a)	- ·	·— •	•			
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11)	Replacement drawing sheet(s) including the c The oath or declaration is objected to by the						
Priority ι	inder 35 U.S.C. § 119						
12)□	Acknowledgment is made of a claim for fo	reian priority u	nder 35 II S.C. & <sup>c</sup>	119(a)-(d) or (f)			
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٠,١	•	ments have he	en received				
	<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>						
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_	e of References Cited (PTO-892)		4) Interview Su	mmary (PTO-413)			
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	nation Disclosure Statement(s) (PTO-1449 or PTO/S No(s)/Mail Date	SB/08)	5)  Notice of Info	ormal Patent Application (PTC -·	)-152)		

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#### **DETAILED ACTION**

## Response to Amendment

This action is in response to Applicant's amendment filed August 7, 2006. Claims 1-7, 10-23, 28-34, 37-38, 40-46 and 51-53 are pending in the application.

# Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 7, 2006 has been entered.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-7, 16-23, 28-34 and 51-53 are rejected under 35 U.S.C. 102(e) as being anticipated by USPN 6,424,996 issued to Killcommons et al. (hereinafter Killcommons).

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Regarding claim 1, Killcommons teaches a system for remotely displaying a medical image, said system including:

a medical imaging system transmitting unprocessed medical imaging data to a remote terminal (figures 1 and 2A-2D; col. 3, line 58 to col. 4, line 30; col. 7, lines 44-51); and

a remote terminal for receiving said unprocessed medical imaging data, processing said unprocessed medical imaging data to form a medical image and displaying said medical image (figures 1 and 3; col. 4, lines 31-45; col. 7, lines 44-51).

Regarding claim 2, Killcommons teaches the system of claim 1 wherein said remote terminal performs post-processing on said unprocessed medical image data (col. 4, line 54 to col. 22).

Regarding claim 3, Killcommons teaches the system of claim 1 wherein said medical imaging system acquired said unprocessed medical imaging data (col. 3, line 58 to col. 4, line 30).

Regarding claim 4, Killcommons teaches the system of claim 1 wherein said remote terminal sends commands to said medical imaging system (col. 5, lines 6-22).

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Regarding claim 5, Killcommons teaches the system of claim 1 wherein said medical imaging system also transmits audio data to said remote terminal (col. 1, line 66 to col. 2, line 9).

Regarding claim 6, Killcommons teaches the system of claim 1 wherein said medical imaging system also transmits system parameter data to said remote terminal (col. 3, line 58 to col. 4, line 30).

Regarding claim 7, Killcommons teaches a system for remotely controlling a medical imaging system, said system including:

a remote terminal for transmitting commands to a medical imaging system (col. 5, lines 6-22); and

a medical imaging system for receiving and executing said commands from said remote terminal (col. 5, lines 6-22);

wherein said commands control at least one of pre-processing functions and post-processing functions of said medical imaging system (col. 4, line 54 to col. 5, line 22; col. 7, lines 44-51).

Regarding claim 16, Killcommons teaches a system for remotely post-processing medical imaging data, said system including: a remote terminal receiving unprocessed medical

information data, said remote terminal including a remote imaging processor receiving said unprocessed medical information data and post-processing said medical imaging data (figures 2A-D).

Regarding claim 17, Killcommons teaches the system of claim 16 wherein said unprocessed medical imaging data is sent by a medical imaging system to said remote terminal (figure 1).

Regarding claim 18, Killcommons teaches the system of claim 16 wherein said remote terminal processes said unprocessed medical information data according to imaging parameters (col. 3, line 58 to col. 4, line 22).

Regarding claim 19, Killcommons teaches the system of claim 18 wherein said imaging parameters are controlled by an operator at said remoter terminal (col. 5, lines 5-22).

Regarding claim 20, Killcommons teaches a remote terminal for use in a medical imaging system for remotely displaying a medical image, said remote terminal including:

a remote data processor receiving unprocessed medical imaging data (figure 1);

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a remote imaging processor for post-processing said medical imaging data to form a medical image; and a display for displaying said medical image (figure 1; col. 5, lines 5-22; col. 7, lines 44-51).

Regarding claim 21, Killcommons teaches the remote terminal of claim 20 further including remote console controls (col. 5, lines 5-22).

Regarding claim 22, Killcommons teaches the remote terminal of claim 21 wherein said remote console controls control imaging parameters at said remoter imaging processor (col. 5, lines 5-22).

Regarding claim 23, Killcommons teaches the remote terminal of claim 20 wherein said remote console controls are used to relay commands through said remote data processor to an imaging system (figure 1; col. 5, lines 5-22).

Regarding claim 28, Killcommons teaches a method for remotely displaying a medical image, said method including the steps of:

transmitting unprocessed medical imaging data from a medical imaging system to a remote terminal (figure 1);

processing said unprocessed medical imaging data at said remote terminal to form a medical image; and displaying said medical image (figures 2A-D; col. 7, lines 44-51).

Regarding claim 29, Killcommons teaches the method of claim 28 further including the step of post-processing said unprocessed medical image data at said remote terminal (figure 3).

Regarding claim 30, Killcommons teaches the method of claim 28 further including the step of acquiring said unprocessed medical imaging data at said medical imaging system (figure 1).

Regarding claim 31, Killcommons teaches the method of claim 28 further including the step of sending commands from said remote terminal to said medical imaging system (col. 5, lines 6-22).

Regarding claim 32, Killcommons teaches the method of claim 28 further including thestep of transmitting audio data from said medical imaging system to said remote terminal (col. 7, lines 23-42).

Regarding claim 33, Killcommons teaches the method of claim 28 further including the step of transmitting system parameter data from said medical imaging system to said remote terminal (figure 1).

Regarding claim 34, Killcommons teaches a method for remotely controlling a medical imaging system, said method including the steps of:

transmitting commands from a remote terminal to a medical imaging system (col. 5, lines 5-22); and executing said commands at said medical imaging system (col. 5, lines 5-22),

wherein said commands control at least one of pre-processing functions and post-processing functions of said medical imaging system (col. 4, line 54 to col. 5, line 22; col. 7, lines 44-51).

Regarding claim 51, Killcommons teaches an imaging system for use in a medical imaging system for remotely displaying a medical image, said imaging system including: a data processor externally transmitting unprocessed medical imaging data for processing (figure 1).

Regarding claim 52, Killcommons teaches the imaging system of claim 51 further including a data acquisition processor acquiring imaging data and sending said imaging data to said data processor (figures 2A-D).

Regarding claim 53, Killcommons teaches the imaging system of claim 51 wherein said data processor is responsive to control signal from an origin external to said imaging system (figure 1).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10-12, 14-15, 37-38 and 40-46 rejected under 35 U.S.C. 103(a) as being unpatentable over Killcommons in view of USPN 6,032,120 issued to Rock et al. (hereinafter referred to as Rock).

(Amended) Regarding claim 10, Killcommons teaches a system for communication between the operator of a medical imaging device and the operator of remote terminal, said system including:

a medical imaging system transmitting unprocessed communications data to a remote terminal (col. 4, line 54 to col. 5 line 22; col. 7, lines 44-51); and

a remote terminal for receiving unprocessed communications data from said medical imaging system (col. 4, line 54 to col. 5, line 22; col. 7, lines 44-51).

However, Killcommons fails to explicitly teach the imaging system being able to receive processed communications data from a remote terminal, and the remote terminal being able to transmit processed communications data to the medical imaging system.

In an analogous art, Rock discloses a system for accessing stored ultrasound images from a remote system (abstract; figures 1-3). At the time the invention was made, one of ordinary skill in the art would have been motivated to enable the remote terminal to transmit processed data to medical imaging system in order to allow medical personnel to locate, access, and display stored digital medical images (col. 1, lines 6-8).

Regarding claim 11, Killcommons teaches the system of claim 10 wherein said communications data is audio data (col. 1, line 66 to col. 2, line 5).

Regarding claim 12, Killcommons teaches the system of claim 10 wherein said communications data is video data (col. 1, line 66 to col. 2, line 5).

Regarding claim 14, Killcommons teaches the system of claim 10 wherein said communications data represents a verbal command (col. 7, lines 23-43).

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Regarding claim 15, Killcommons teaches the system of claim 10 wherein said communications data is text data (col. 1, line 66 to col. 2, line 5)

(Amended) Regarding claim 37, Killcommons teaches a method for communication between the operator of a medical imaging device and the operator of remote terminal, said method including the steps of: transmitting unprocessed communications data to a remote terminal from a medical imaging system (col. 3, line 58 to col. 4, line 22; col. 7, lines 44-51).

However, Killcommons fails to explicitly teach receiving processed communications data at said medical imaging system from said remote terminal. In an analogous art, Rock discloses a system for accessing stored ultrasound images from a remote system (abstract; figures 1-3). At the time the invention was made, one of ordinary skill in the art would have been motivated to enable the remote terminal to transmit processed data to medical imaging system in order to allow medical personnel to locate, access, and display stored digital medical images (col. 1, lines 6-8).

Regarding claim 39, Killcommons teaches the method of claim 37 wherein said communications data is uncompressed raw data (figure 1).

Regarding claim 40, Killcommons teaches the method of claim 37 wherein said communications data is video data (col. 1, line 67 to col. Line 9).

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Regarding claim 41, Killcommons teaches the method of claim 37 wherein said communications data represents a verbal command (col. 7, lines 23-42).

Regarding claim 42, Killcommons teaches the method of claim 37 wherein said communications data is text data (col. 1, line 67 to col. Line 9).

Regarding claim 43, Killcommons teaches a method for remotely post-processing medical imaging data, said method including the steps of: receiving unprocessed medical information data at a remote terminal (figure 1); and post-processing said medical imaging data (figure 3).

Regarding claim 44, Killcommons teaches the method of claim 43 wherein said unprocessed medical imaging data is sent by a medical imaging system to said remote terminal (figure 1).

Regarding claim 45, Killcommons teaches the method of claim 43 wherein said remote terminal processes said unprocessed medical information data according to imaging parameters (figure 2).

Regarding claim 46, Killcommons teaches the method of claim 45 wherein said imaging parameters are controlled by an operator at said remoter terminal (figure 1).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alina N. Boutah whose telephone number is 571-272-3908. The examiner can normally be reached on Monday-Friday (9:00 am - 5:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on 571-272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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